UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF COMMERCIAL FISHERIES

CALIFORNIA FISHERY MARKET NEWS MONTHLY SUMMARY

September 1965

PART II–Fishing Information*

Sea-surface temperatures, fishing and research information of interest to the West Coast tuna-fishing industry and marine scientists

CONTENTS

Page

Sea Surface Temperature Charts, Eastern Pacific Ocean, September 1965 1

Bureau of Commercial Fisheries
Tuna Resources Laboratory
P. O. Box 271
La Jolla, California 92038

*Part 1 - "Fishery Products Production and Market Data" is issued by the Bureau of Commercial Fisheries, Market News Service, Post Office Building, San Pedro, California

SEA SURFACE TEMPERATURE CHARTS, EASTERN PACIFIC OCEAN

SEPTEMBER 1965

Acknowledgments

The following organizations and stations contributed data for the September 1965 charts:

U.S. Bureau of Commercial Fisheries Exploratory Fishing and Gear Research Base, Seattle, Washington

U.S. Bureau of Commercial Fisheries Biological Laboratories, La Jolla, California; Honolulu, Hawaii, and Seattle, Washington

U.S. Weather Bureau, San Diego, California

U.S. Naval Communication Station Balboa, Fort Amador, Canal Zone

U.S. Weather Bureau Port Meteorological Office, Cristobal, Canal Zone

Guadalupe Island, Coronado Island, Ensenada, Cedros Island and Almejas Bay by Pedro Mercado of the Universidad Autonoma de Baja California, Ensenada, Mexico

Hopkins Marine Station, Pacific Grove, California by J. P. Balesteri

Inter-American Geodetic Survey by Rene Cortes at Salina Cruz, Mexico; L. A. Peren at Pt. Armuelles, Panama; R. H. Valencia at San Jose, Guatemala; V. E. Castillo at Tumaco, Colombia; G. Tapia at San Cristobal, Galapagos; S. Valenzuela at La Libertad, Ecuador; E. Lopez and E. Guerrero at Talara, Peru; J. Cardenas at San Juan, Peru

Inter-American Tropical Tuna Commission, La Jolla and Terminal Island, California

Kelco Company, San Diego, California

Lifeguard Headquarters, Newport Beach, California

Pacific Oceanographic Group, Nanaimo, British Columbia, by H. J. Hollister from observations by T. Collins at Quatsino Lightstation; C. Johnsen at Cape St. James Light; B. Stuart at Amphitrite Point Light; K. A. Wallace at Langara Island Light

Scripps Institution of Oceanography, La Jolla, California by Margaret Robinson and Hans Klein

Ships American Enterprise, Monsoon, and Royal Pacific

Charts

Figure 1.--Mean sea surface temperatures (°F) derived from approximately 8000 observations. Squares show temperatures at weather-ship stations. Numerals on shore are temperatures at coastal and light-ship stations.

Figure 2.--Deviation of sea surface temperatures (°F) from long term charts of H.O. 225. Hatched areas are colder than mean.

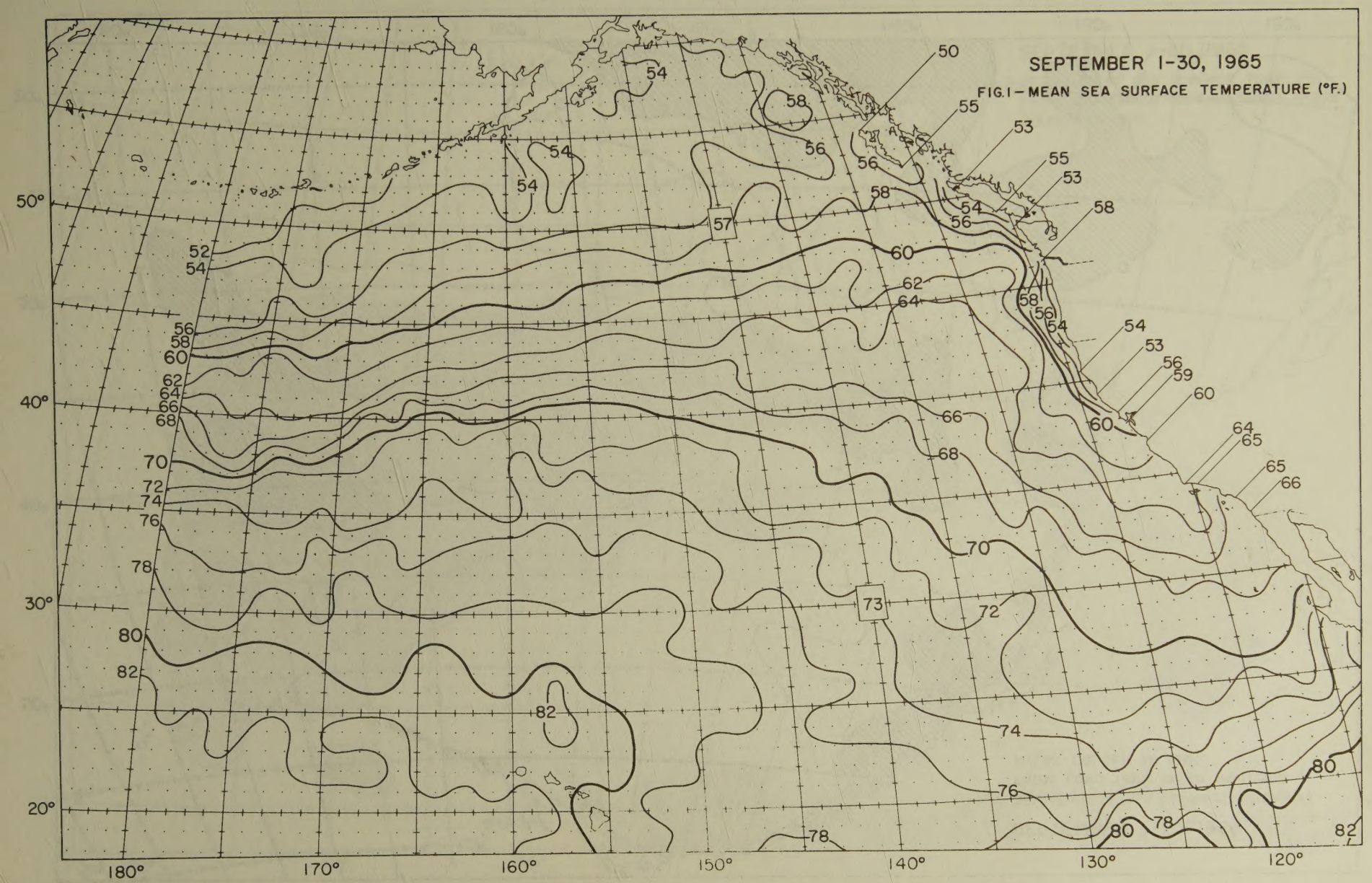
Figure 3.--Deviation of sea surface temperatures (°F) from those of September 1964. Hatched areas are colder than 1964.

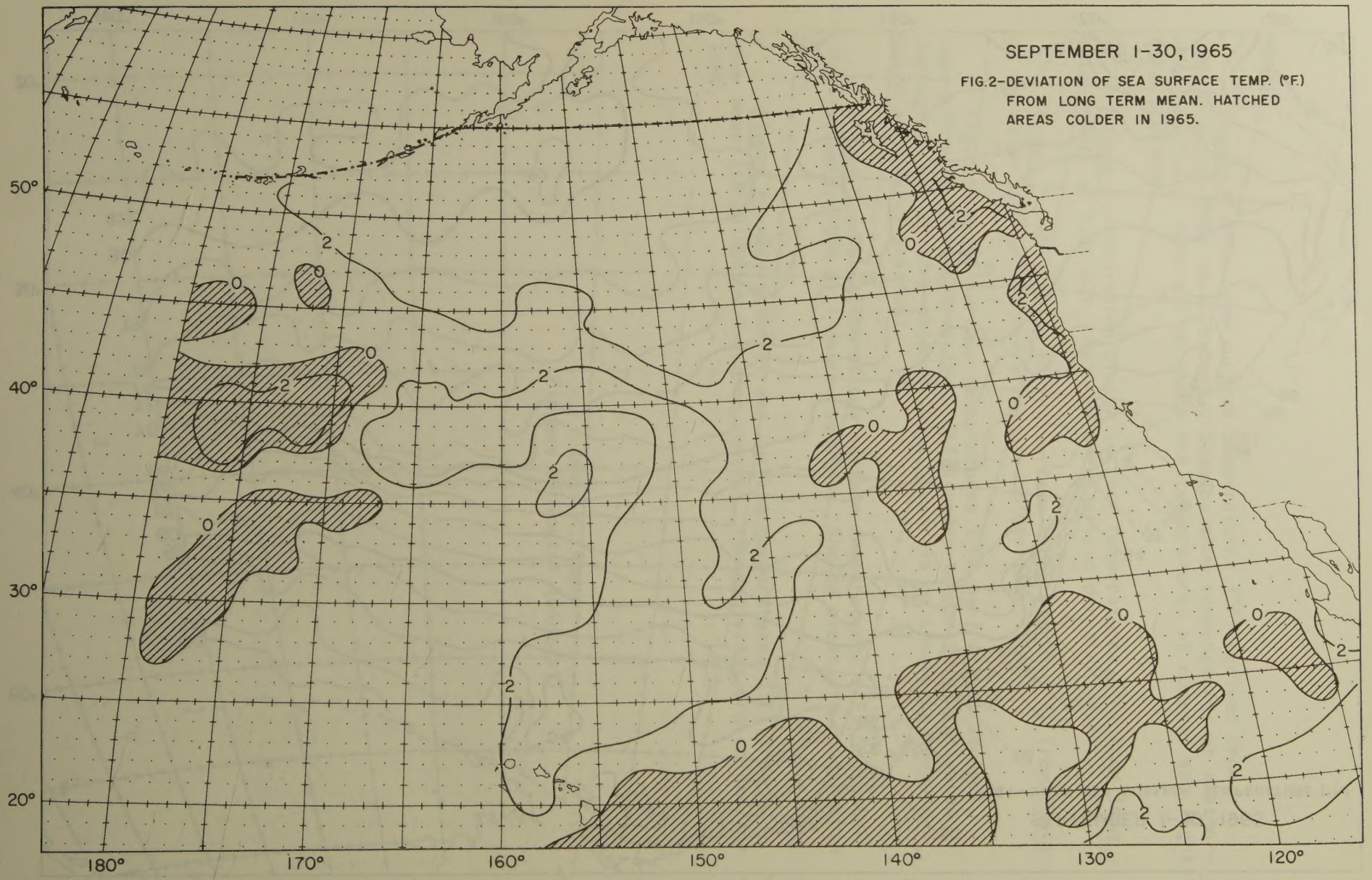
Figure 4.--Sea surface temperatures (°F) by 1-degree squares, approximately 2000 observations. Line under temperatures indicates average of two or more observations. Numerals on shore are temperatures at coastal stations.

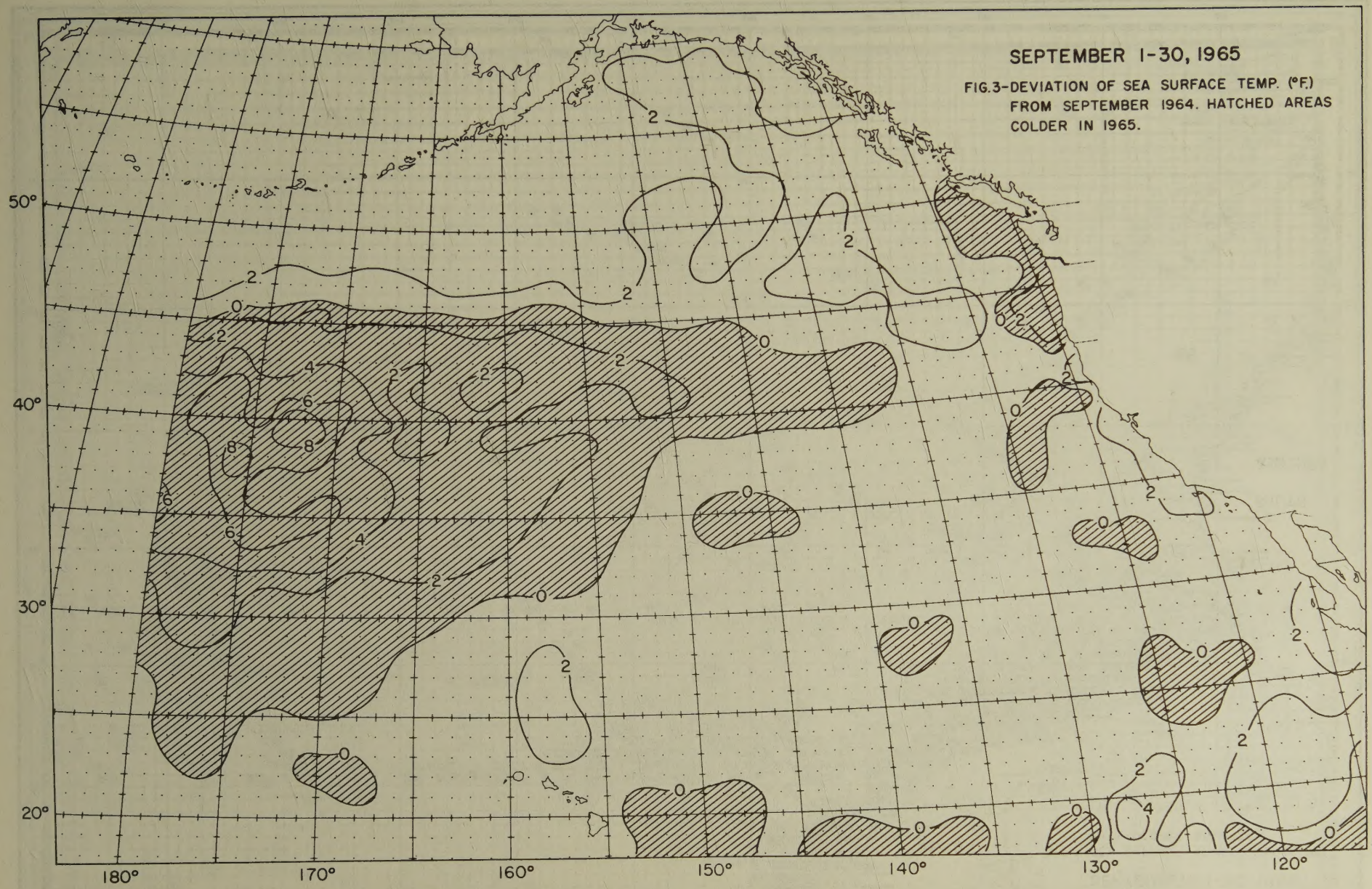
Figure 5.--Deviation of sea surface temperatures (°F) September 1965-September 1964 by 1-degree squares. Shaded areas are colder than 1964.

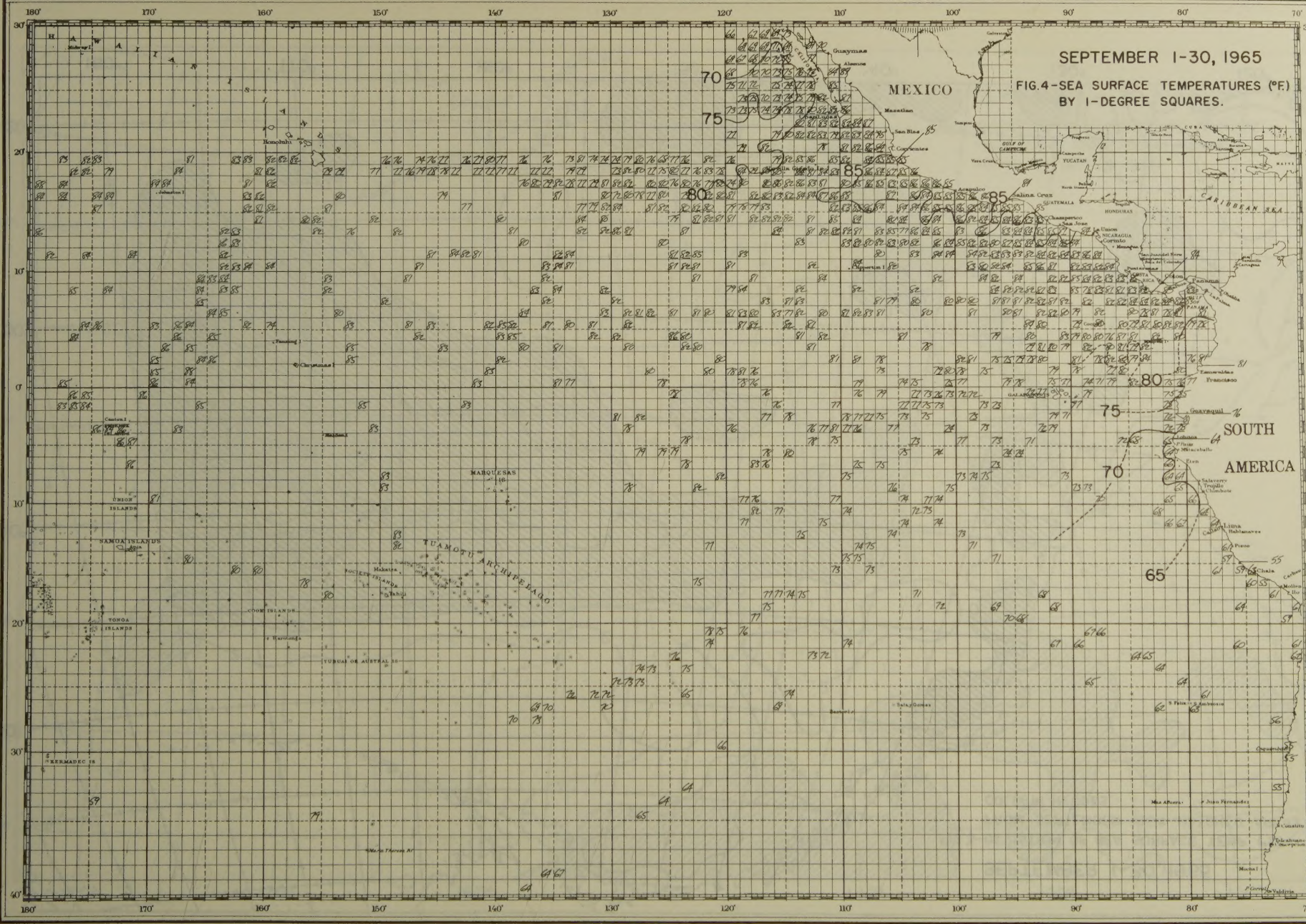
Figure 6.--Deviation of sea surface temperatures (°F) from 12-year mean (194701958 by 2-degree squares. Shaded areas are colder in 1965.

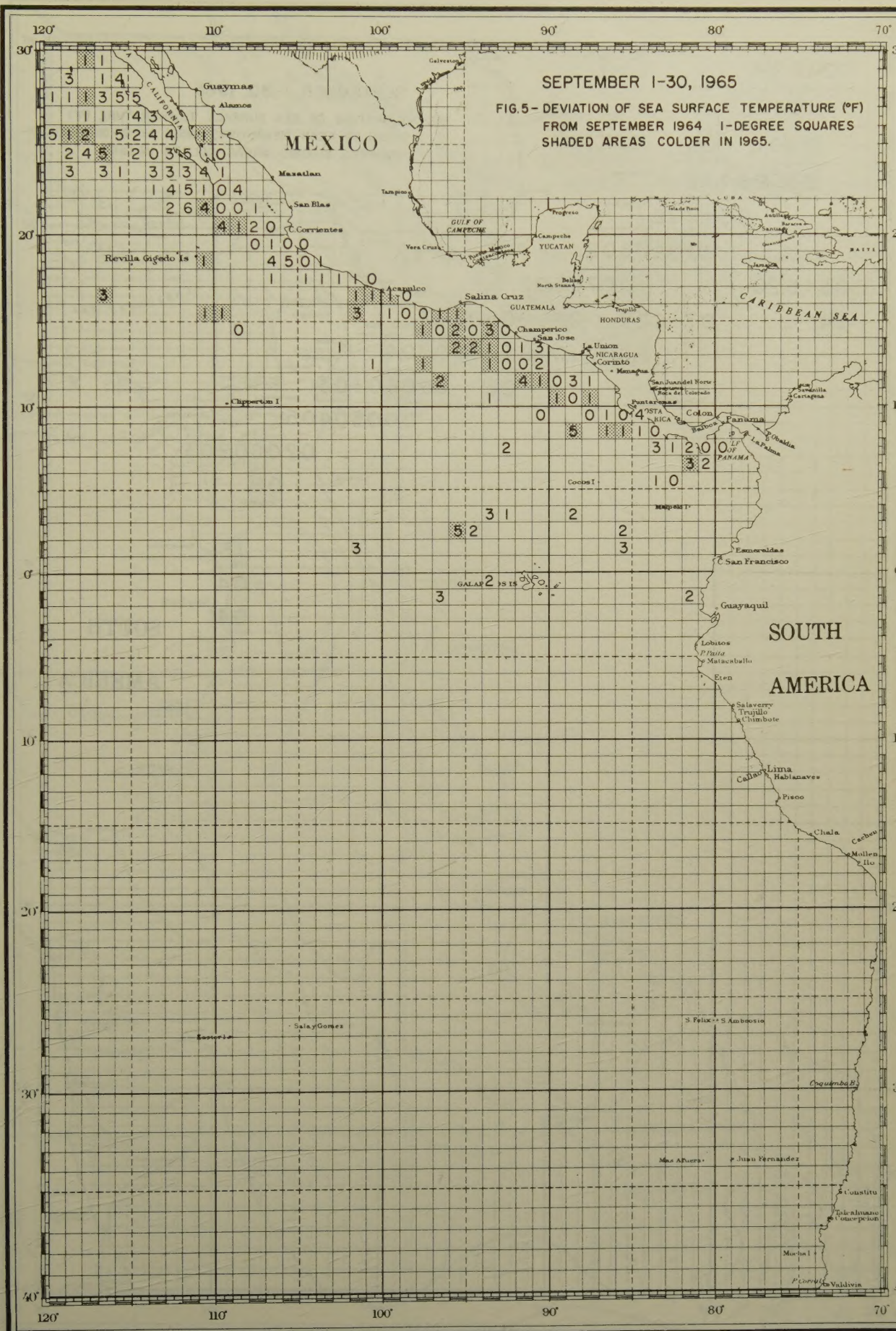
James A. Renner
Fishery Biologist (General)

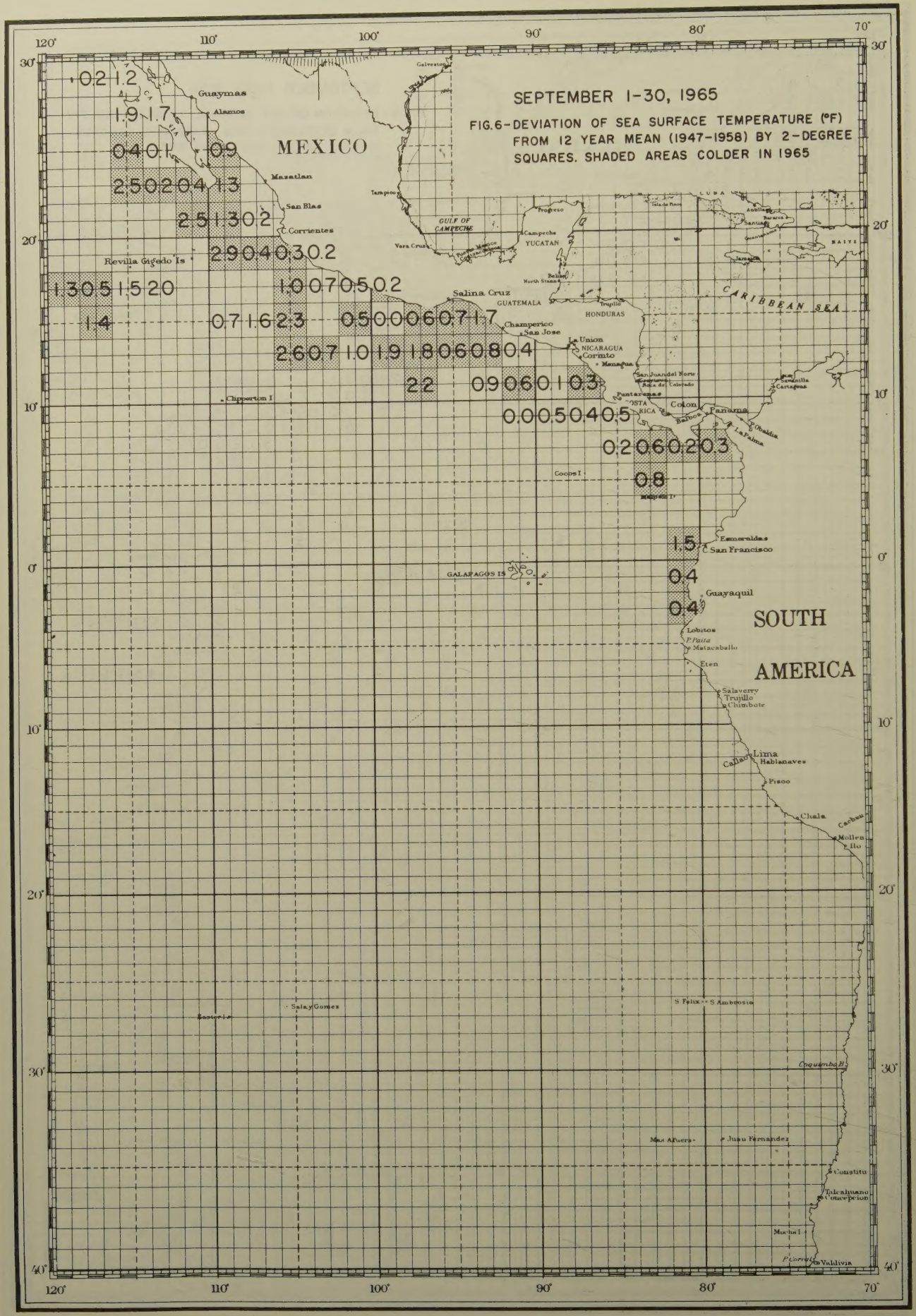

SEPTEMBER 1-30, 1965
FIG.1 – MEAN SEA SURFACE TEMPERATURE (°F.)
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°
50
55
53
55
53
58
54
56
58
54
53
56
59
60
64
65
65
66
60
57
73
52
54
56
58
60
62
64
66
68
70
72
74
76
78
80
82
82
74
76
78
80
78
82

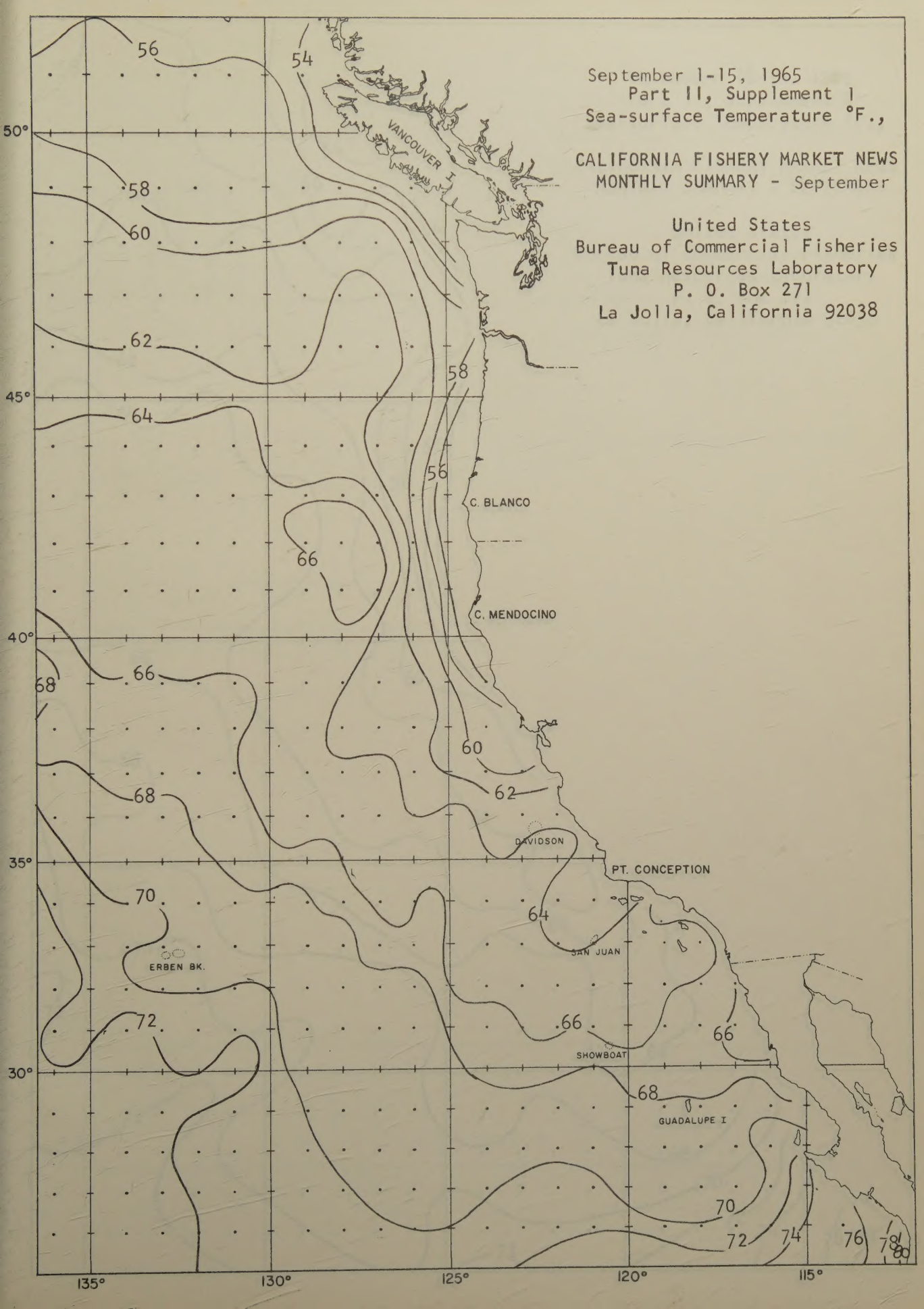

SEPTEMBER 1-30, 1965
FIG.2-DEVIATION OF SEA SURFACE TEMP. (°F.) FROM LONG TERM MEAN. HATCHED AREAS COLDER IN 1965.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°
0
2

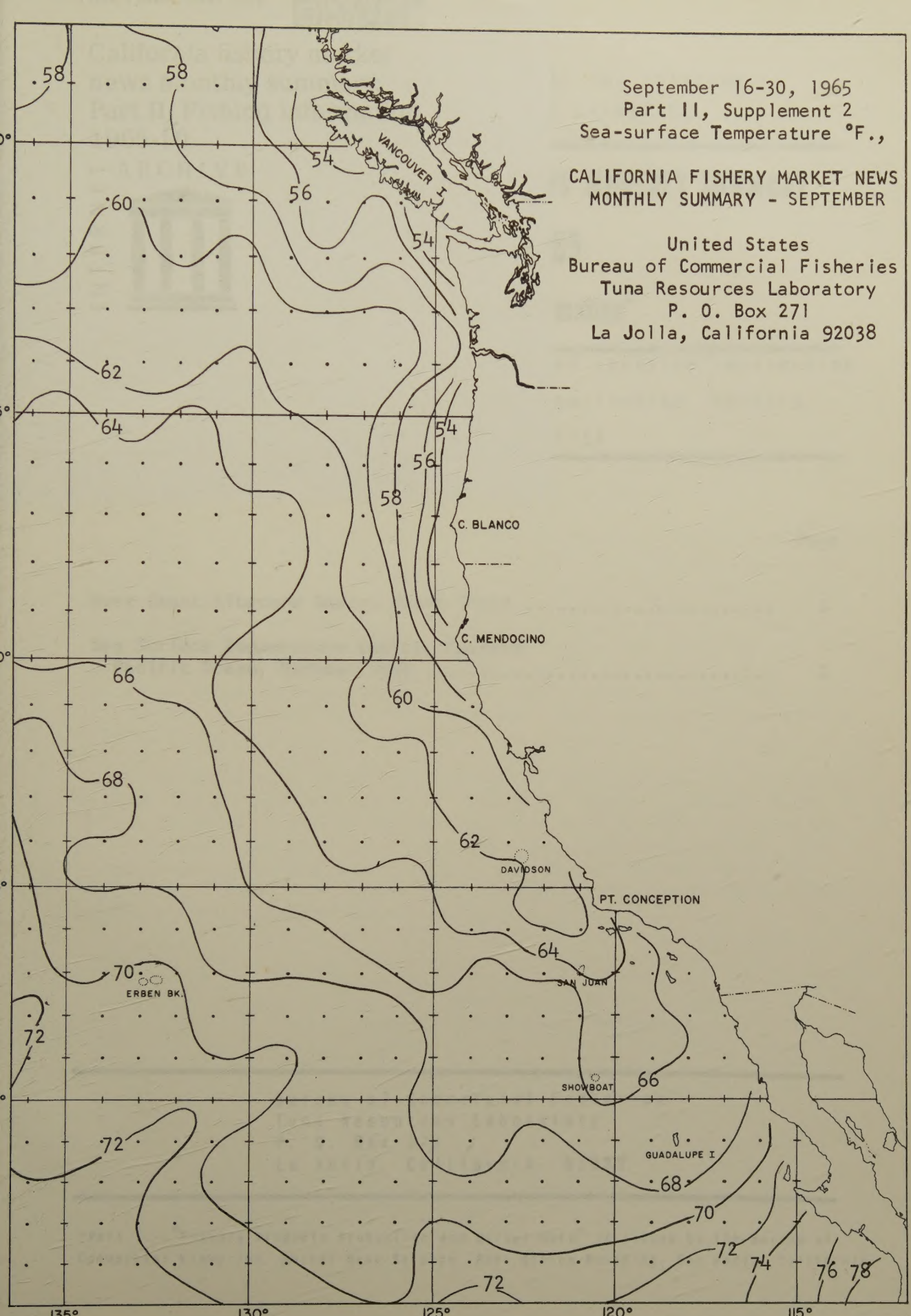

SEPTEMBER 1-30, 1965
FIG.3-DEVIATION OF SEA SURFACE TEMP. (°F.) FROM SEPTEMBER 1964. HATCHED AREAS COLDER IN 1965.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°


SEPTEMBER 1-30, 1965
FIG.4-SEA SURFACE TEMPERATURES (°F)
BY 1-DEGREE SQUARES.
MEXICO
SOUTH
AMERICA
CARIBBEAN SEA
HAWAIIAN ISLANDS
TUAMOTU ARCHIPELAGO
MARQUESAS
SAMOA ISLANDS
COOK ISLANDS
TONGA ISLANDS
UNION ISLANDS
180°
170°
160°
150°
140°
130°
120°
110°
100°
90°
80°
70°
60°
50°
40°
30°
20°
10°
0°


SEPTEMBER 1-30, 1965
FIG.5- DEVIATION OF SEA SURFACE TEMPERATURE (°F) FROM SEPTEMBER 1964 1-DEGREE SQUARES SHADED AREAS COLDER IN 1965.
MEXICO
SOUTH AMERICA
CARIBBEAN SEA
GULF OF CAMPECHE
YUCATAN
GUATEMALA
HONDURAS
NICARAGUA
COSTA RICA
PANAMA
CUBA
JAMAICA
HAITI
Guaymas
Alamos
Mazatlan
San Blas
C. Corrientes
Revilla Gigedo Is
Acapulco
Salina Cruz
Champerico
San Jose
La Union
Corinto
Chipperton I
Cocos I
Malpelo I
Galapagos Is
Esmeraldas
C. San Francisco
Guayaquil
Lobitos
Talara
Matacaballo
Eten
Salaverry
Trujillo
Chimbote
Callao
Lima
Hablanaves
Pisco
Chala
Cachero
Mollendo
Ilo
Salas y Gomez
S. Felix
S. Ambrosio
Juan Fernandez
Mas Afuera
Valdivia
Corcovado G.
120°
110°
100°
90°
80°
70°
30°
20°
10°
0°
40°


SEPTEMBER 1-30, 1965
FIG.6-DEVIATION OF SEA SURFACE TEMPERATURE (°F) FROM 12 YEAR MEAN (1947-1958) BY 2-DEGREE SQUARES. SHADED AREAS COLDER IN 1965
MEXICO
SOUTH AMERICA
CARIBBEAN SEA
GULF OF CAMPECHE
YUCATAN
GUATEMALA
HONDURAS
NICARAGUA
COSTA RICA
CUBA
HAITI
GALAPAGOS IS
Guaymas
Alamos
Mazatlan
San Blas
C Corrientes
Revilla Gigedo Is
Salina Cruz
Champerico
San Jose
La Union
Corinto
Managua
Trujillo
Tampico
Vera Cruz
Progreso
Campeche
Belize
Tela de Pinos
Santiago
Jamaica
Cartagena
Colon
Panama
Balboa
Chiriqui
Cocos I
Esmeraldas
San Francisco
Guayaquil
Lobitos
P Pitta
Matacaballo
Eten
Salaverry
Trujillo
Chimbote
Callao
Lima
Habianaves
Pisco
Chala
Cachau
Mollendo
Ilo
Salay Gomez
Easter I
S Felix
S Ambrosio
Coquimbo
Mas Afuera
Juan Fernandez
Constitu
Talcahuano
Concepcion
Mocha I
Corral
Valdivia
120°
110°
100°
90°
80°
70°
30°
20°
10°
0°
40°


September 1-15, 1965
Part II, Supplement 1
Sea-surface Temperature °F.,
CALIFORNIA FISHERY MARKET NEWS
MONTHLY SUMMARY - September
United States
Bureau of Commercial Fisheries
Tuna Resources Laboratory
P. O. Box 271
La Jolla, California 92038
VANCOUVER I.
C. BLANCO
C. MENDOCINO
DAVIDSON
PT. CONCEPTION
SAN JUAN
SHOWBOAT
GUADALUPE I
ERBEN BK.
50°
45°
40°
35°
30°
135°
130°
125°
120°
115°
54
56
58
60
62
64
66
68
70
72
74
76
78
80


September 16-30, 1965
Part II, Supplement 2
Sea-surface Temperature °F.,
CALIFORNIA FISHERY MARKET NEWS
MONTHLY SUMMARY - SEPTEMBER
United States
Bureau of Commercial Fisheries
Tuna Resources Laboratory
P. O. Box 271
La Jolla, California 92038
VANCOUVER I.
C. BLANCO
C. MENDOCINO
DAVIDSON
PT. CONCEPTION
SAN JUAN
SHOWBOAT
ERBEN BK.
GUADALUPE I
58
58
54
56
54
60
62
64
54
56
58
66
60
68
62
64
70
66
72
68
70
72
74
76
78
72
135°
130°
125°
120°
115°